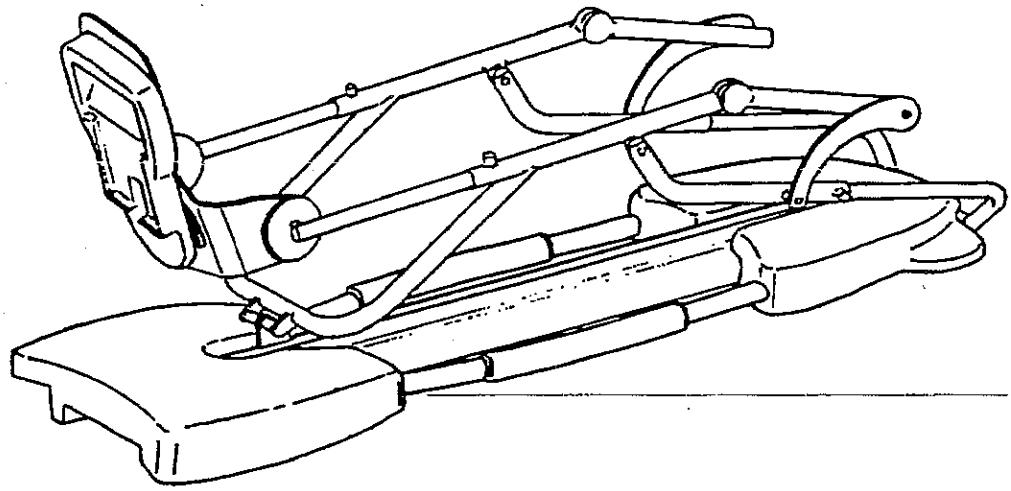
Servicing Manual



spectra s1

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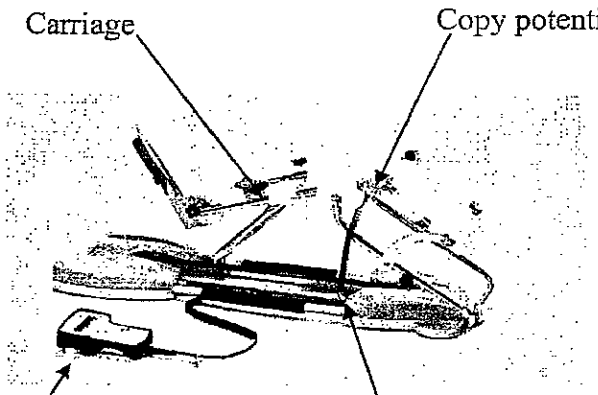
MAINS COMPONENTS



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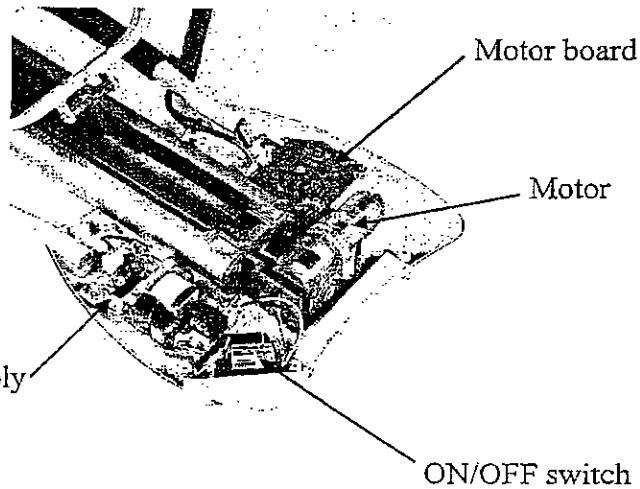
Exit

MAINS COMPONENTS



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Exit

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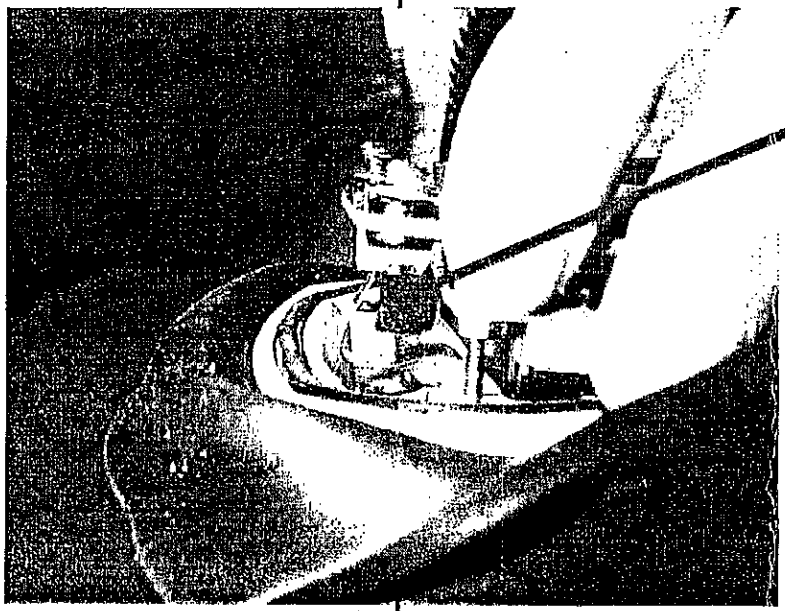
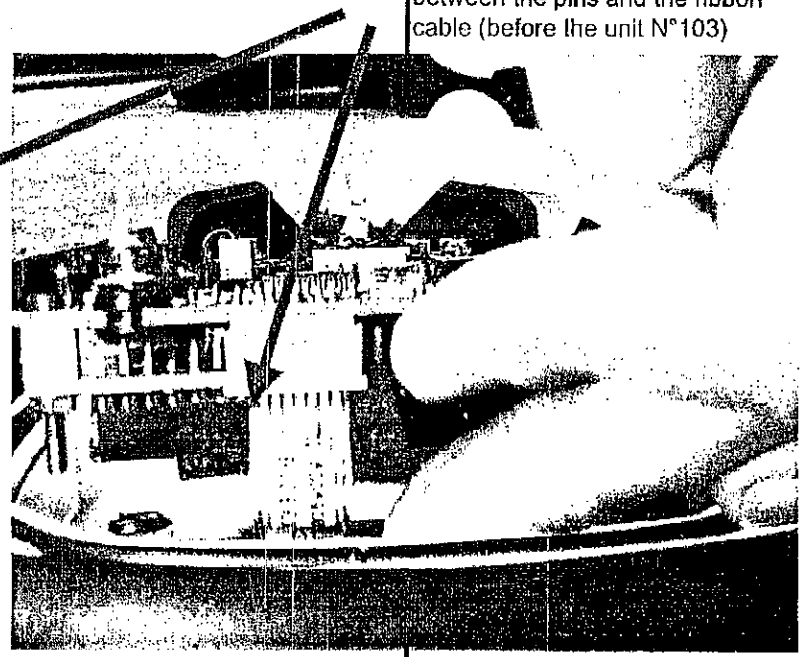
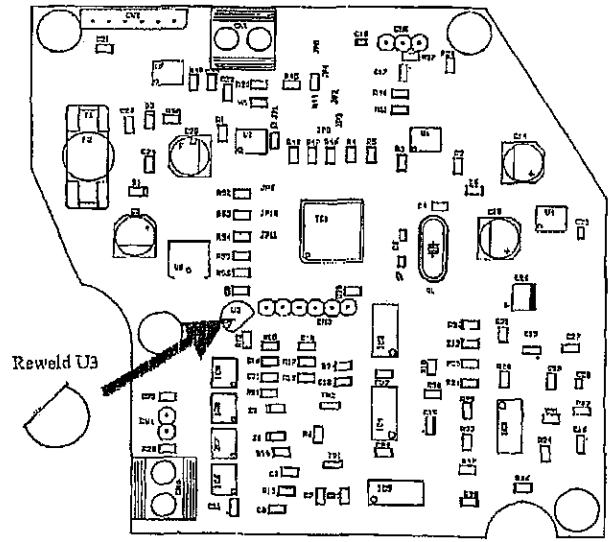
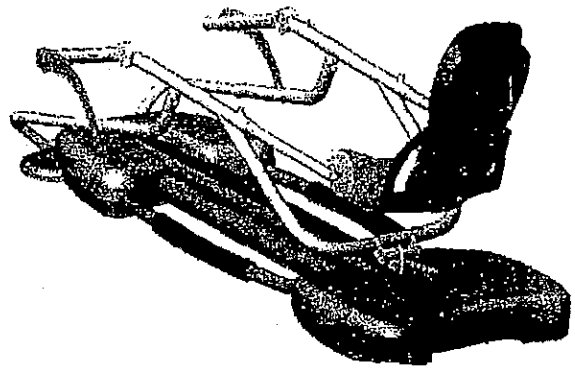
Code	failures	Controls	possibles causes	Solutions
570	in switch ON nothing at the display of the handcontrol	Control input AC Voltage	power cord	Change
			primary fuse	Change
		Control output voltage at the power supply :Value 12V +- 0,5V	Switching power supply	Change
		Invert with an other hand control	Hand control	Change or control next step
		Control V+ on the Hand control connector :Value 12V +- 0,5V	hand control cable	Change
			motor card	change the motor card
549	First line of the screen display square dark	Invert with an other hand control	Hand control	Change
550	In Run mode on the LCD, the motor doesn't work	Verify on Hancontrol Cable the TTL level of GO line. Value between 4,5V and 5V	Cable	Change
		Verify the wire of the motor inside the CPM	motor wire	reweld the motor wire
		check the 12V on the connector of the motor card in run mode	motor card	change the motor card
		everithing is OK and the motor doesn't run	motor carbone are blocked	change the motor (the manufacturing process have change after the unit N°210)

551	Bad message on the LCD 	Control the proximity of the ribbon cable and pins of LCD display		put silicone or an insulating part between the pins and the ribbon cable (before the unit N°103)
	Bad value on the LCD	check the connection on the copy potentiometer	bad connection (the conections are cut; there is a short circuit in the connection)	reweld the connection of the copy potentiometer
553	The message "Connection defect" appear in RUN mode	Check the continuity of the wires in the cable of the hand control check the continuity of the wires between the hand control and the motor card	cable wires	repair or change repair or change
555	Message :"DEFFECT ANGULAR POSI."	----------	Parameters EEPROM loose.	Redo calibration
		check the connection on the copy potentiometer	cable	repair or change
		check the connection of the spiral cable on the motor card	cable	repair or change
		check the continuity of the spiral cable	cable	change

571	"MOTOR CARD BAD" "SELECT A VALID MOVEMENT"	Switch OFF; wait 5 secondes; Switch ON Control the release on LCD during initialization check the componant U3	after waiting 5 secondes the unit works perfectly the U3 componant is bad welded  	---------- reweld the componant as following (before the unit N°336)
552	"MOTOR CARD BAD" The machine doesn't recognize the motor at switch ON	Check the continuity and short circuit of communication line (see the scheme for detail) check the motor card fuse control input voltage at the motor	wires motor card fuse motor card	Change change change

NOTICE PIECES DE RECHANGE
CATALOGUE OF SPARE PARTS

SPECTRA S1



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APPAREIL DE MOBILISATION ARTICULAIRE PASSIVE DU GENOU
KNEE CONTINUOUS PASSIVE MOTION DEVICE

Notice N° 467899274 A
Mise à jour le 31/01/03
AbilityOne Kinetec se réserve le droit de toutes modifications techniques.
AbilityOne Kinetec reserves the right to effect technical modifications.

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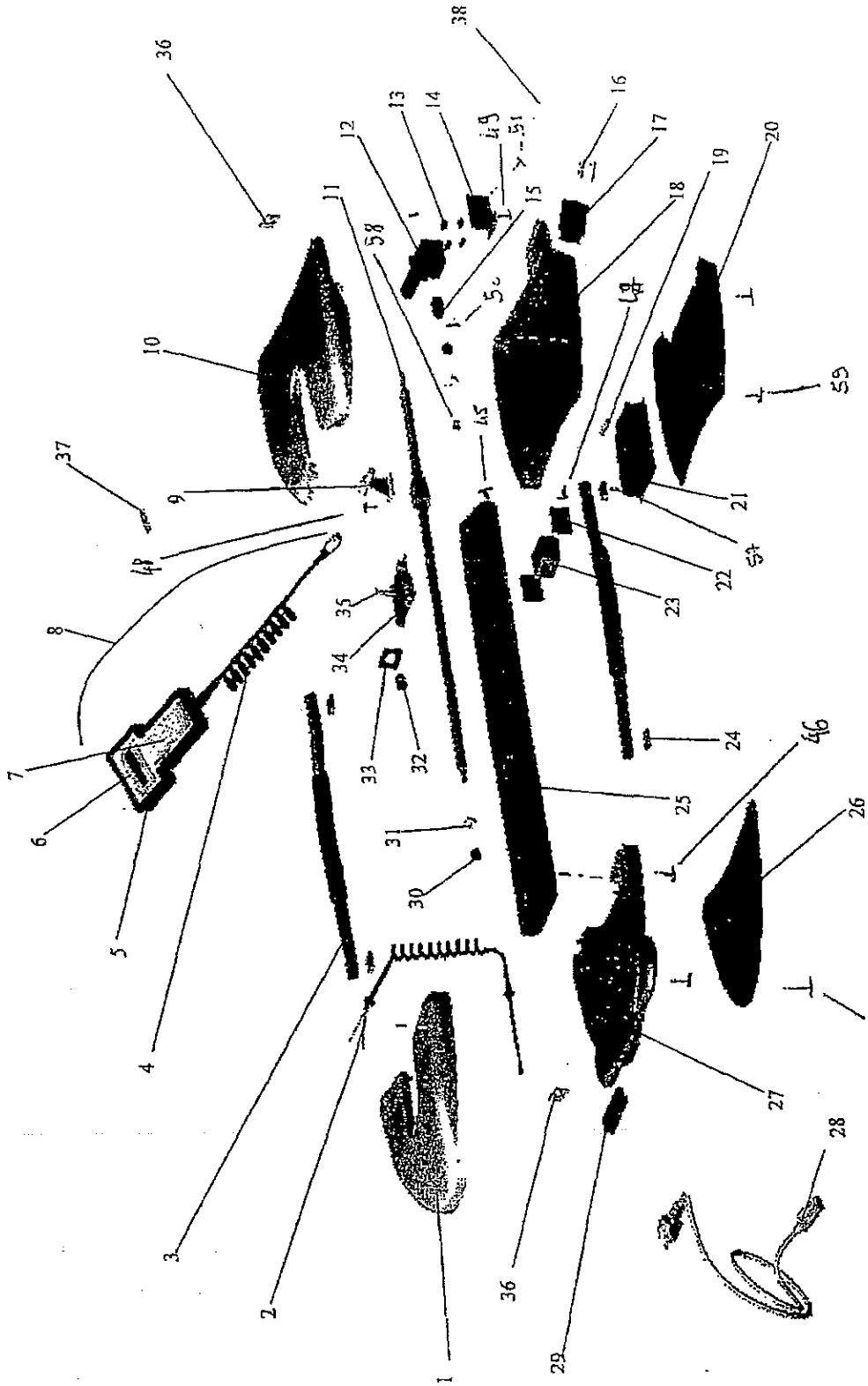
SPECTRA PARTS

Tournes, November 10, 2003

SET 4670021474

REP	ITEMS CODE	DESIGNATION	QUANTITY	PRICE € per unit
40	4635000661	Potentiometer Flange	3	0.86
41	4630000020	Rondel AZ ZING 3	1	0.15
42	4620000874	3*12 Screw	1	0.15
43	4620000387	4*10 TF Screw	1	0.15
44	4620000494	2.5*5 Screw TCLF	3	0.15
45	4620003282	TH4 Screw	4	0.15
46	4620000725	5*10 BHC Screw	8	0.15
47	4620002755	4*16 FHC Screw	4	0.15
48	4620002747	4*12 FHC Screw	2	0.15
49	4620003274	5*8 CHC Screw	2	0.15
50	4626000240	2.5*16 Pin	2	0.15
51	4620000600	M4*8 TCF Screw	4	0.15
52	4620001947	M6*20 TF Screw	2	0.15
53	4620000361	M4*6 F Screw	2	0.15
54	4620002391	M6*12 Screw F. Stanley	1	0.15
55	4620001707	M6 Locknut	1	0.15
56	4620001682	M6 Nut	2	0.15
57	4620002870	HM 3*5 Screw	8	0.15
58	4620000741	5*16 Screw BHC	4	0.15
59	4620003258	3.5*16 Screw	11	0.15
60	4635008574	Washer brake	2	0.15
61	4637000065	Black cover 18-2	2	0.15
62	4620002325	6*12 Screw	8	0.15
63	4627000794	Spacer 6*8*4.05	4	0.15
64	4637000049	Black cover 15 mm	2	0.15
65	4620002606	M3*25 Screw	1	0.15
66	4620003290	M3*16 I Screw	1	0.15
67	4620001228	6*30 Screw	1	0.15
68	4670015386	Washer	2	0.15
69	4630000905	Washer 13.5*30*1	2	0.15
70	4630000921	6*16 *1.2 Plate washer	2	0.15
71	4627000075	6*8*5 Spacer	2	0.34
72	4626000696	4*15 Pin	1	0.15
73	4626000373	4*20 Pin	1	0.15
74	4635006263	Angular stop piece – *Pion butée angulaire*	2	0.26
75	4626000092	3*16 Pin	1	0.15
76	4627000710	6*8*3 Spacer	2	0.30
77	4620002440	6*12 Screw	2	0.15
78	4620002680	6*40 Screw	2	0.15
79	4620002218	4*6 Screw	1	0.15
80	4626000266	3*10 Pin	1	0.15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N	REFERENCE	Q.	DESIGNATION	DESIGNATION	MATER.
1	4670021466	1	CARTER SUPERIEUR AVANT	*FRONT UPPER CASING*	A.B.S.
2	4610007913	1	CORDON SPIRALE	*SPIRAL CABLE*	P.U.R.
3	4635008508	2	POIGNEE DE TRANSPORT	*CARRY HANDLE*	ALUM.+P.U.R.
4	4610007921	1	CORDON DE POIGNEE DE COMMANDE	*CABLE OF HAND CONTROL*	P.U.R.
5	4635007609	1	PROTECTION DE POIGNEE DE COMMANDE	*PROTECTION HAND CONTROL*	P.U.R.
6	4615003122	1	CLAVIER D'AFFICHEUR	*SCREEN KEYPAD*	POLYESTER
7	4615002653	1	CLAVIER	*KEYPAD*	POLYESTER
8	4610007864	1	POIGNEE DE COMMANDE COMPLETE	*HAND CONTROL ASSY*	ELECT.COMP
9	4670021341	1	ARTICULATION JAMBIERE	*LEG ARTICULATION*	ACIER / STEEL
10	~~4635008481~~	1	CARTER SUPERIEUR ARRIERE	*BACK UPPER CASING*	A.B.S.
11	4635008475	1	VIS A BILLES	*BALL SCREW*	ACIER / STEEL
12	4610007905	1	MOTOREDUCTEUR PERCE	*GEAR MOTOR*	ACIER+CU / COPPER
13	4635000281	4	PLOT ELASTIQUE	*SCHOCK ABSORBER*	P.V.C.
14	4670021482	1	SUPPORT MOTOREDUCTEUR	*GEAR MOTOR SUPPORT*	ACIER / STEEL
15	4670015328	1	ACCOUPLEMENT ELASTIQUE	*FLEXIBLE COUPLING*	ALUM.+P.U.R.
16	4610007434	2	FUSIBLE 6.3x32mm T 750mA	*FUSE T 750mA 250V 6.3x32mm*	ELECT.COMP
17	4670021408	1	EMBASE SECTEUR CABLEE	*SUPPLY SOCKET*	ELECT.COMP
18	4670021383	1	CARTER INFERIEUR ARRIERE	*BACK LOWER CASING*	ALUMINIUM
19	4610007468	1	FUSIBLE DE CARTE ALMIMENTATION	*FUSE OF SUPPLY BOARD*	ELECT.COMP
20	4635008558	1	ANTIDERAPPANT ARRIERE	*BACK ANTI SLIDING*	POLYETHYLENE
21	4610006543	1	CARTE ALIMENTATION 260-90 VOLTS	*SUPPLY BOARD*	ELECT.COMP
22	4670021333	2	PATIN	*SLIDING PART*	POLYETHYLENE
23	4670021359	1	SUPPORT ECROU	*NUT SUPPORT*	ALUMINIUM
24	4635008615	4	ECROU DEMI ROND M 5	*NUT M 5*	ACIER / STEEL
25	4670021458	1	PROFIL ALUMINIUM	*ALUMINIUM PROFIL*	ALUMINIUM
26	4635008540	1	ANTIDERAPPANT AVANT	*FRONT ANTI SLIDING*	POLYETHYLENE
27	4670021375	1	CARTER INFERIEUR AVANT	*FRONT LOWER CASING*	ALUMINIUM
28	4610006626	1	CORDON SECTEUR VDE 3.5m	*CABLE TO THE MAIN VDE*	P.UR.
	4610006634	1	CORDON SECTEUR 4m UL	*CABLE TO THE MAIN UL*	P.U.R.
	4610007161	1	CORDON SECTEUR AUSTRALIE	*CABLE TO THE MAIN AUSTRALIA*	P.U.R.
	4610007400	1	CORDON SECTEUR U.K.	*CABLE TO THE MAIN U.K.*	P.U.R.
29	4635005611	1	ENSEMBLE ARTICULATION CRURALE	*ARTICULATION ASSY*	P.O.M.
30	4639000071	2	BAGUE INTERIEUR LR diam 8x12x10.5mm	*diam 8x12x10.5mm LR RING*	ACIER / STEEL
	4639000047	2	CAGE A AIGUILLES HK diam 12x10mm	*HK diam 12x10mm BALL BEARING*	ACIER / STEEL
31	4639000097	4	RONDELLE BUTEE LS 0821 diam 8x21x2.75mm	*diam 8x21x2.75mm LS 0821WASHER*	ACIER / STEEL
	4639000021	2	BUTEE A AIGUILLES AXK 0821 diam 8x21x2mm	*AXK 0821 diam 8x21x2mm BALL BEARING*	ACIER / STEEL
32	4610001569	1	EMBASE 7 BROCHES FEMELLE	*CONNECTOR 7 PINS FEMEL*	ELECT.COMP
33	4635008532	1	SUPPORT EMBASE	*CONNECTOR SUPPORT*	ACIER / STEEL
34	4610007939	1	CARTE MOTEUR	*MOTOR PCB*	ELECT.COMP
35	4610007012	1	FUSIBLE DE CARTE MOTEUR	*FUSE OF MOTOR PCB*	ELECT.COMP
36	4670021490	2	PALIER	*BEARING SUPPORT*	ALUMINIUM
37	4635008780	1	INSONORISANT CHARIOT	*SOUND-PROOF*	POLYURETHANE
38	4635008764	1	INSONORISANT MOTEUR	*SOUND-PROOF*	POLYURETHANE

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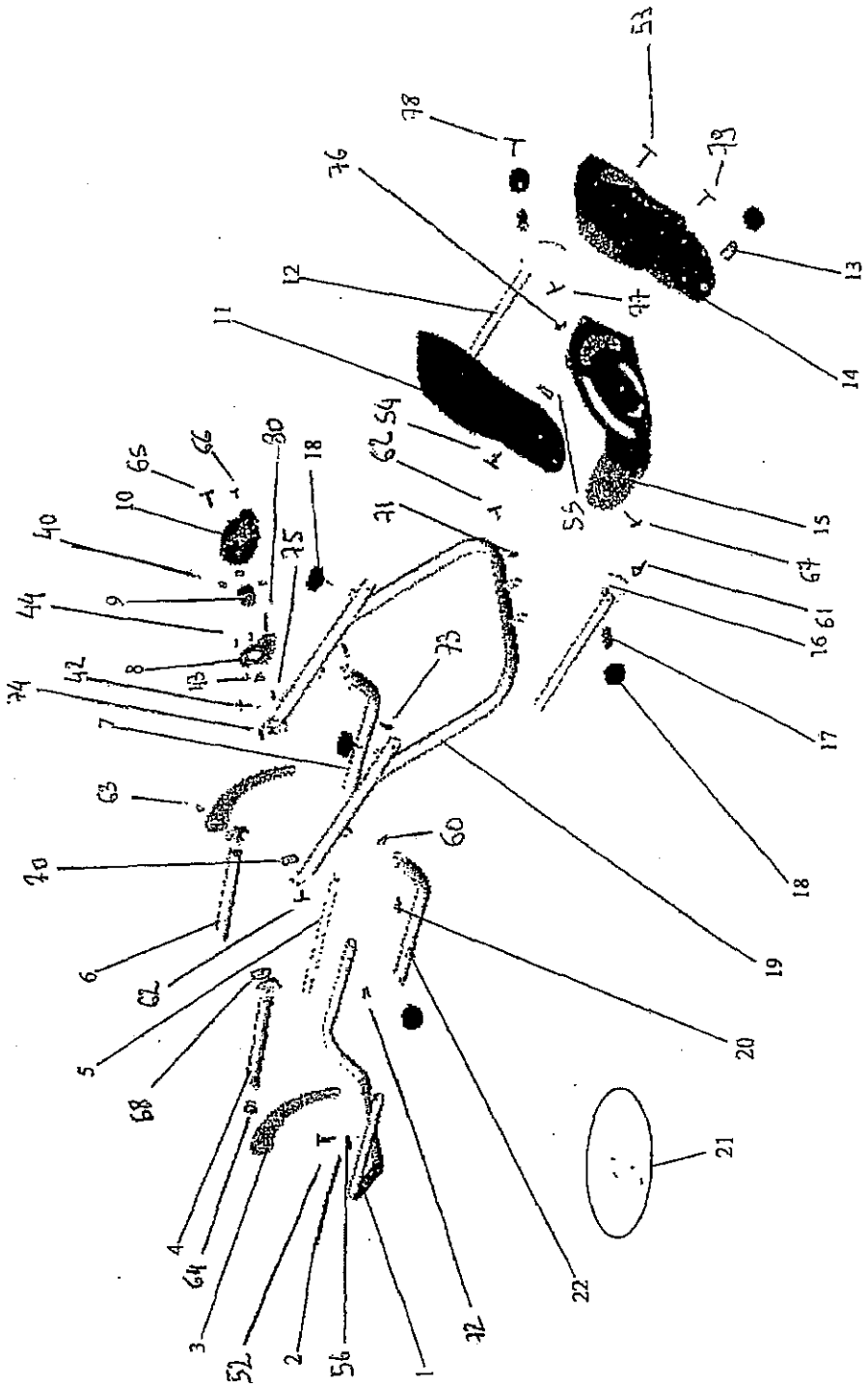

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N°	REFERENCE	Q.	DESIGNATION	*DESIGNATION*	MATER.
1	4670021309	1	COULISSE CRURALE	*SLIDING HALF UPPER LEG SUPPORT*	ACIER / STEEL
2	4615002182	1	ETIQUETTE REPERE FEMUR	*FEMUR LABEL*	POLYESTER
3	4670021292	2	PATTE ARTICULATION CRURAL	*ARTICULATION PLATE*	ACIER / STEEL
4	4670021276	1	ELEMENT CRURAL DROIT	*RIGHT FIXED UPPER LEG SUPPORT*	ACIER / STEEL
5	4635002451	1	EPINGLE ACIER	*PIN*	ACIER / STEEL
6	4670021284	1	ELEMENT CRURAL GAUCHE	*LEFT FIXED UPPER LEG SUPPORT*	ACIER / STEEL
7	4670021268	1	ELEMENT CRURAL INFERIEUR GAUCHE	*LEFT INFERIOR UPPER LEG SUPPORT*	ACIER / STEEL
8	4670021317	1	SUPPORT POTENTIOMETRE	*POTENTIOMETER MOUNTING*	ACIER / STEEL
9	4610004539	1	POTENTIOMETRE COPIE 10K	*COPY POTENTIOMETER*	ELECT.COMPON.
10	4635008483	1	CAPOT DE POTENTIOMETRE	*COVER FOR POTNTIOMETER*	A.B.S.
11	4670021226	1	PLANCHETTE	*FOOT PLATE*	ACIER / STEEL
12	4670021193	1	COULISSE JAMBIERE GAUCHE	*LEFT FOOT SUPPORT TUBE*	ACIER / STEEL
13	4627001239	1	ENTRETOISE SERRAGE SUPPORT POIGNEE	*TIGHTEN SPACER OF HAND CONTROL SUPPORT*	ALUMINIUM
14	4670021432	1	SUPPORT POIGNEE DE COMMANDE	*HAND CONTROL SUPPORT*	A.B.S.
15	4670021218	1	SUPPORT PLANCHETTE	*PIVOTING FOOT SUPPORT*	ACIER / STEEL
16	4670021200	1	COULISSE JAMBIERE DROITE	*RIGHT FOOT SUPPORT TUBE*	ACIER / STEEL
17	4627000637	2	ENTRETOISE SERRAGE PLANCHETTE	*TIGHTEN SPACER OF FOOT PLATE*	ALUMINIUM
18	4670021440	1	LOT DE BOUTONS DE SERRAGES	*SET LOCKING KNOB*	P.O.M.
19	4670021242	1	ELEMENT JAMBIER	*LOWER LEG SUPPORT*	ACIER / STEEL
20	4627001213	2	AXE DE CHAPE DIAM. 6	*DIAM. 6 AXE*	INOX / S.STEEL
21	4670021474	1	LOT DE VIS,RONDELLE,ENTRETOISE,GOUPILLE,...	*SET OF SCREW,WASHER,SPACER,PIN,CAPS.....*	ACIER / STEEL
22	4670021250	1	ELEMENT CRURAL INFERIEUR DROIT	*RIGHT INFERIOR UPPER LEG SUPPORT*	ACIER / STEEL

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